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- 1 [Confident estimation for multistage measurement sampling and aggrega](#)
 Edith Cohen, Nick Duffield, Carsten Lund, Mikkel Thorup
 June 2008 **SIGMETRICS '08: Proceedings of the 2008 ACM SIGMETRIC**
 modeling of computer systems

Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (558.55 KB)

 Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 132, Downl

Measurement, collection, and interpretation of network usage data com
 aggregation. Examples include sampling packets, aggregating them into
 aggregation of usage records ...

Keywords: confidence intervals, estimation, network measurement, sa

- 2 [Towards a cross-platform microbenchmark suite for evaluating hardw](#)
 Roberto Araiza, Maria Gabriela Aguilera, Thientam Pham, Patricia J. Teller
 October 2005 **TAPIA '05: Proceedings of the 2005 conference on Diversity**
Publisher: ACM

 Full text available: [Pdf](#) (233.08 KB)

 Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 21, Downloa

As useful as performance counters are, the meaning of reported aggreg
 Questions arise due to unanticipated processor behavior, overhead assoc
 monitored code, hardware ...

Keywords: hardware performance counters, microbenchmarks

- 3 [In-network surface simplification for sensor fields](#)
 Brian Harrington, Yan Huang
 November 2005 **GIS '05: Proceedings of the 13th annual ACM international**
Publisher: ACM [Request Permissions](#)

 Full text available: [Pdf](#) (347.32 KB)

 Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 30, Downloa

Recent research literature on sensor network databases has focused on
 of sensor readings to reduce the message cost. However, with these tec

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particular location is ...

Keywords: energy efficient, in-network surface simplification, sensor fi

4 [Big-bang simulation for embedding network distances in Euclidean s](#)

Yuval Shavitt, Tomer Tankel

December 2004 **IEEE/ ACM Transactions on Networking (TON)** , Volume

Publisher: IEEE Press

Full text available:  Pdf (1.08 MB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 53, Downloa

Embedding of a graph metric in Euclidean space efficiently and accurate applications in topology aggregation, closest mirror selection, and applic embedding scheme called ...

5 [Bandwidth-constrained queries in sensor networks](#)

Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos

May 2008

The VLDB Journal — The International Journal on Very

Publisher: Springer-Verlag New York, Inc.

Full text available:  Pdf (423.56 KB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 66, Downlo

Sensor networks consist of battery-powered wireless devices that are re time. Thus, reducing energy drain is of utmost importance when design networks. Aggregate ...

Keywords: In-network aggregation, Sensor networks

6 [Communications of the ACM: Volume 52 Issue 3](#)



March 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.04 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 448, Downloads (12 Months): 2863, Dov

7 [Exploiting nonstationarity for performance prediction](#)



Christopher Stewart, Terence Kelly, Aix Zhang

June 2007

EuroSys '07: Proceedings of the 2nd ACM SIGOPS/ EuroSys I

Publisher: ACM

Full text available:  Pdf (2.81 MB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 110, Downl


Real production applications ranging from enterprise applications to larg noted characteristic: The relative frequencies of transaction types in the transaction ...

Keywords: LAR regression, enterprise, internet services, multi-tier, no prediction, realistic workloads

Also published in:


June 2007 **SIGOPS Operating Systems Review** Volume 41 Issue 3

8 [Tributaries and deltas: efficient and robust aggregation in sensor net](#)

 Amit Manjhi, Suman Nath, Philip B. Gibbons

June 2005 **SIGMOD '05: Proceedings of the 2005 ACM SIGMOD interna**

Publisher: ACM 


Full text available:  Pdf (496.66 KB)

Additional Information: [full citation](#), [ab](#)



Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 90, Downlo

Existing energy-efficient approaches to in-network aggregation in senso
tree-based and multi-path-based, with each having unique strengths an
Tributary-Delta, a ...

9 [Communications of the ACM: Volume 52 Issue 9](#)

 September 2009 Communications of the ACM

Publisher: ACM

Full text available:  Digital Edition ,  Pdf (7.28 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 3344, Downloads (12 Months): 4217, Dc

10 [The context-switch overhead inflicted by hardware interrupts \(and the](#)

 Dan Tsafir

June 2007 **ExpCS '07: Proceedings of the 2007 workshop on Experimen**

Publisher: ACM

Full text available:  Pdf (683.17 KB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 9, Downloads (12 Months): 76, Downloa

The overhead of a context switch is typically associated with multitaskin
But even if only one runnable application is present in the system and s
preempted in ...


Keywords: clock interrupts, operating system noise, ticks

11 [Monitoring data archives for grid environments](#)

Jason Lee, Dan Gunter, Martin Stoyler, Brian Tierney

November 2002 **Supercomputing '02: Proceedings of the 2002 ACM/IEEE**

Publisher: IEEE Computer Society Press


Full text available:  Pdf (107.31 KB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 43, Downloa

Developers and users of high-performance distributed systems often ob
unexpectedly low throughput or high latency. To determine the source c
end monitoring data from applications, ...

12 [The schur aggregation for solving linear systems of equations](#)

 V. Y. Pan, B. Murphy, R. E. Poshoit, M. Tabanjeh

July 2007 **SNC '07: Proceedings of the 2007 international workshop on**

Publisher: ACM 

Full text available:  Pdf (296.27 KB)


Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 25, Downloa

According to our previous theoretical and experimental study, additive preconditioners are effective for solving linear systems with symmetric positive definite matrices, but application of such preconditioners to facilitate the solution of the linear system is not straightforward. In the present ...


Keywords: Iterative Refinement, additive preconditioning, linear system

13 Scalable omniscient debugging

 Guillaume Pothier, Éric Tanter, José Piquer

October 2007 **OOPSLA '07: Proceedings of the 22nd annual ACM SIGPLAN conference on Object-Oriented Programming, Systems, and Applications**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.60 MB)

Additional Information: [full citation](#), [ab](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 137, Downl


Omniscient debuggers make it possible to navigate backwards in time while improving the task of debugging complex applications. Still, they are more difficult to use than traditional debuggers. This paper presents a new debugging technique that is based on the potentially ...

Keywords: execution traces, interface components, omniscient debugging, distributed database

Also published in:

October 2007 **SIGPLAN Notices** Volume 42 Issue 10

14 Queue: Volume 7 Issue 1


 January 2009 Queue

Publisher: ACM


Full text available:  Digital Edition,  Pdf (2.84 MB) Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 317, Downl

15 Adaptive rank-aware query optimization in relational databases

 Ihab F. Ilyas, Walid G. Aref, Ahmed K. Elmagarmid, Hicham G. Elmongui, Fadi M. S. Abdelrazek
December 2006 **Transactions on Database Systems (TODS)**, Volume 31 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (1.48 MB)

Additional Information: [full citation](#), [ab](#)


Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 155, Downl

Rank-aware query processing has emerged as a key requirement in modern database systems. Adaptive evaluation of top-k queries is an integral part of the application of rank-aware query processing. In this paper, we present a new technique for adaptive evaluation of top-k queries. The technique is based on the potentially ...



Keywords: Advanced query processing, adaptive processing, rank-aware query processing

16 Enhancing Software Testing by Judicious Use of Code Coverage Information

Stefan Berner, Roland Weber, Rudolf K. Keller

May 2007 **ICSE '07**: Proceedings of the 29th international conference on
Publisher: IEEE Computer Society
 Full text available:  Pdf (1.23 MB) Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 18, Downloads (12 Months): 106, Downl

Recently, tools for the analysis and visualization of code coverage have value in assessing and improving the quality of automated test suites as well as experience ...

17 [Implementing reliable event streams in large systems via distributed](#)
 Krzysztof Ostrowski, Ken Birman, Danny Dolev, Chuck Sakoda
 July 2009 **DEBS '09**: Proceedings of the Third ACM International Conference
Publisher: ACM
 Full text available:  Pdf (1.89 MB) Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 5, Download


Strong reliability properties, such as state machine replication and virtual manner. They are typically expressed in terms of global membership view scalable. We propose ...

Keywords: aggregation, data flow, membership, protocol, scalability

18 [Constructing collaborative desktop storage caches for large scientific](#)
 Sudharshan S. Vazhkudal, Xiaosong Ma, Vincent W. Freeh, Jonathan W. St
 Stephen L. Scott
 August 2006 **Transactions on Storage (TOS)**, Volume 2 Issue 3
Publisher: ACM  Request Permissions
 Full text available:  Pdf (833.76 KB) Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 19, Downloads (12 Months): 135, Downl

High-end computing is suffering a *data deluge* from experiments, simulating application dataset sizes. This has led to the proliferation of high-end main data ...

Keywords: Distributed storage, parallel I/O, scientific data management, storage networking, storage resource management, storage scavenging

19 [Robust Process Discovery with Artificial Negative Events](#)
 Stijn Goedertier, David Martens, Jan Vanthienen, Bart Baesens
 June 2009 **The Journal of Machine Learning Research**, Volume 10
Publisher: MIT Press
 Full text available:  Pdf (599.01 KB) Additional Information: [full citation](#), [ab](#)
Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 10, Download

Process discovery is the automated construction of structured process from event logs often contain positive examples only. Without negative examples between recall ...



Using virtual markets to program global behavior in sensor networks
Geoff Mainland, Laura Kang, Sebastien Lahaie, David C. Parkes, Matt Weiss
September 2004 **EW 11**: Proceedings of the 11th workshop on ACM SIGOPS
Publisher: ACM

Full text available: Pdf (175.76 KB)

[Additional Information: full citation, abstract](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 42, Downloads (All Time): 10

This paper presents *market-based macroprogramming (MBM)*, a new paradigm for programming in sensor networks. Rather than programming the individual, low-level tasks in a market where ...

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